

PATENTS

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

Guy TABACCHI et al.

Serial No. (unknown)

Filed herewith

NOVEL INVERSE LATICES
SELF-INVERTIBLE WITH
RESPECT TO FATTY ACID
ESTERS, AND COSMETIC,
DERMOCOSMETIC,
DERMOPHARMACEUTICAL OR
PHARMACEUTICAL COMPOSITIONS
COMPRISING THEM

PRELIMINARY AMENDMENT

Commissioner for Patents

Washington, D.C. 20231

Sir:

Prior to calculation of the filing fee, please
amend the above-identified application as follows:

IN THE CLAIMS:

Amend claim 5 as follows:

--5. (Amended) Composition as defined in claim
2, for which the constituent solvent of the oil phase of the
inverse latex is a compound of formula (Ia):

$$R_1-(C=O)-O-CH_2-CH[O-[C(=O)]_m-R_2]-CH_2-O-[C(=O)]_p-R_3 \quad (Ia)$$

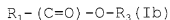
corresponding to the formula (I) in which q and n are equal
to 1, or a mixture of compounds of formulae (Ia).

Amend claim 9 as follows:

--9. (Amended) Composition as defined in claim 5, for which the constituent solvent of the oil phase of the inverse latex is a mixture of compounds of formulae (Ia₁), (Ia₂) and/or (Ia₃).

Amend claim 10 as follows:

--10. (Amended) Composition as defined in claim 2, for which the constituent solvent of the oil phase of the inverse latex is a compound of formula (Ib):



corresponding to the formula (I) in which q is equal to 0, or a mixture of compounds of formulae (Ib).

Amend claim 12 as follows:

--12. (Amended) Composition as defined in claim 5, for which the constituent solvent of the oil phase of the inverse latex is a mixture of at least one compound of formula (Ib) and of at least one compound of formulae (Ia).

Amend claim 13 as follows:

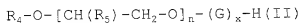
--13. (Amended) Composition as defined in claim 1, in which the emulsifying agent or agents of the water-in-oil type are chosen from sorbitan monooleate, sorbitan isostearate or sorbitan oleate ethoxylated with 5 mol of ethylene oxide.

Amend claim 14 as follows:

--14. (Amended) Composition as defined in claim 1, in which the emulsifying agent or agents of the water-in-oil type are chosen from sorbitan oleate ethoxylated with 20 mol of ethylene oxide, ethoxylated castor oil comprising 40 mol of ethylene oxide, ethoxylated sorbitan laurate comprising 20 mol of ethylene oxide, or ethoxylated lauryl alcohol comprising 7 mol of ethylene oxide.

Amend claim 15 as follows:

--15. (Amended) Composition as defined in claim 1, in which the emulsifying agent or agents of the oil-in-water type are chosen [lacuna] the compounds of formula (II):



in which R_4 represents a saturated or unsaturated and linear or branched hydrocarbonaceous radical comprising from 1 to 30 carbon atoms, R_5 represents a hydrogen atom or an alkyl radical comprising 1 or 2 carbon atoms, G represents the residue of a saccharide, x represents a decimal number between 1 and 5 and n is equal either to zero or to an integer 9.

Amend claim 17 as follows:

--17. (Amended) Composition as defined in claim 15, for which, in the formula (II), G represents the glucose residue or the xylose residue and n is equal to 0.

Amend claim 18 as follows:

--18. (Amended) Composition as defined in claim 15, for which, in the formula (II), R_4 represents a radical comprising from 8 to 18 carbon atoms and more particularly an octyl, decyl, undecyl, dodecyl, tetradecyl or hexadecyl radical, the said radicals being linear or branched.

Amend claim 19 as follows:

--19. (Amended) Composition as defined in claim 1, for which the strong acid functional group of the monomer comprising it is the sulphonic acid functional group or the phosphonic acid functional group, partially or completely salified, and the monomer is preferably 2-methyl-2-[(1-oxo-2-propenyl)amino]-1-propanesulphonic acid, partially or completely salified in the form of an alkali metal salt, such as, for example, the sodium salt or the potassium salt, of the ammonium salt, of a salt of an aminoalcohol, such as, for example, the monoethanolamine salt, or of an amino acid salt, such as, for example, the lysine salt.

Amend claim 20 as follows:

--20. (Amended) Composition as defined in claim 1, for which the weak acid functional group of the monomer comprising it is the carboxylic acid functional group and the said monomer is preferably chosen from partially or

completely salified acrylic acid, methacrylic acid, itaconic acid or maleic acid.

Amend claim 21 as follows:

--21. (Amended) Composition as defined in claim 1, for which the neutral monomer is chosen from 2-hydroxyethyl acrylate, 2,3-dihydroxypropyl acrylate, 2-hydroxyethyl methacrylate, 2,3-dihydroxypropyl methacrylate or an ethoxylated derivative with a molecular weight of between 400 and 1 000 of each of these esters.

Amend claim 22 as follows:

--22. (Amended) Composition as defined in claim 1, in which the polyelectrolyte is a homopolymer of acrylic acid partially or completely salified in the form of the sodium salt or of the ammonium salt.

Amend claim 23 as follows:

--23. (Amended) Composition as defined in claim 1, in which the polyelectrolyte is a copolymer of partially or completely salified 2-methyl-2-[(1-oxo-2-propenyl)amino]-1-propanesulphonic acid (a) and of 2-hydroxyethyl acrylate (b) in an (a)/(b) molar ratio of between 30/70 and 90/10 and very particularly 50/50 and 90/10.

Amend claim 25 as follows:

--25. (Amended) Composition as defined in claim 1, in which the polyelectrolyte is a copolymer of the sodium salt, of

the ammonium salt, of the monoethanolamine salt or of the lysine salt of 2-methyl-2-[(1-oxo-2-propenyl)amino]-1-propanesulphonic acid (a_1) and of acrylic acid partially or completely salified in the form of the sodium salt, of the ammonium salt, of the monoethanolamine salt or of the lysine salt (c_1) in an (a_1)/(c_1) molar ratio of between 30/70 and 90/10 and very particularly between 30/70 and 45/55.

Amend claim 26 as follows:

--26. (Amended) Composition as defined in claim 1, in which the polyelectrolyte is a copolymer of the sodium salt or of the ammonium salt of 2-methyl-2-[(1-oxo-2-propenyl)amino]-1-propanesulphonic acid (a_2) and of acrylamide (d) in an (a_2)/(d) molar ratio of between 50/50 and 30/70.

Amend claim 27 as follows:

--27. (Amended) Composition as defined in claim 1, characterized in that the polyelectrolyte is crosslinked and/or branched with a diethylenic or polyethylenic compound in the molar proportion, expressed with respect to the monomers employed, of 0.005% to 1% and preferably of 0.01% to 0.5% and more particularly of 0.1% to 0.25%.

Amend claim 29 as follows:

--29. (Amended) Composition as defined in claim 1, characterized [lacuna] that it comprises from 4% to 10% by weight of emulsifying agents.

Amend claim 31 as follows:

--31. (Amended) Composition as defined in claim 1, characterized in that the oil phase represents from 15% to 40% and preferably from 20% to 25% of its total weight.

Amend claim 32 as follows:

--32. (Amended) Composition as defined in claim 1, characterized in that it additionally comprises one or more additives chosen from complexing agents, transfer agents or chain-limiting agents.

Amend claim 33 as follows:

--33. (Amended) Cosmetic, dermocosmetic, dermopharmaceutical or pharmaceutical composition, characterized in that it comprises from 0.1% to 10% by weight of the composition as defined in claim 1.

Amend claim 35 as follows:

--35. (Amended) Use of a composition as defined in claim 1 in preparing cosmetic, dermocosmetic, dermopharmaceutical or pharmaceutical compositions.

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R E M A R K S

Attached hereto is a marked-up version of the changes made to the claims by the current amendment. The attached page is captioned "VERSION WITH MARKINGS TO SHOW CHANGES MADE".

Respectfully submitted,

YOUNG & THOMPSON

By



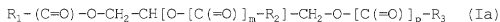
Benoît Castel
Attorney for Applicants
Registration No. 35, 041
Customer No. 00466
745 South 23rd Street
Arlington, VA 22202
Telephone: 703/521-2297

June 26, 2001

VERSION WITH MARKINGS TO SHOW CHANGES MADE

The claims have been amended as follows:

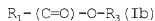
5. (Amended) Composition as defined in ~~any one of~~
~~claims 2 to 4~~, for which the constituent solvent of the oil phase
of the inverse latex is a compound of formula (Ia):



corresponding to the formula (I) in which q and n are equal to 1,
or a mixture of compounds of formulae (Ia).

9. (Amended) Composition as defined in ~~claims 5 to~~
~~8~~, for which the constituent solvent of the oil phase of the
inverse latex is a mixture of compounds of formulae (Ia₁), (Ia₂)
and/or (Ia₃).

10. (Amended) Composition as defined in ~~any one of~~
~~claims 2 to 4~~, for which the constituent solvent of the oil phase
of the inverse latex is a compound of formula (Ib):



corresponding to the formula (I) in which q is equal to 0, or a
mixture of compounds of formulae (Ib).

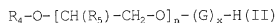
12. (Amended) Composition as defined in ~~claims 5 to~~
~~11~~, for which the constituent solvent of the oil phase of the
inverse latex is a mixture of at least one compound of formula
(Ib) and of at least one compound of formulae (Ia).

13. (Amended) Composition as defined in ~~any one of~~
~~claims 1 to 12~~, in which the emulsifying agent or agents of the

water-in-oil type are chosen from sorbitan monooleate, sorbitan isostearate or sorbitan oleate ethoxylated with 5 mol of ethylene oxide.

14. (Amended) Composition as defined in ~~any one of~~ ~~claims 1 to 13~~, in which the emulsifying agent or agents of the water-in-oil type are chosen from sorbitan oleate ethoxylated with 20 mol of ethylene oxide, ethoxylated castor oil comprising 40 mol of ethylene oxide, ethoxylated sorbitan laurate comprising 20 mol of ethylene oxide, or ethoxylated lauryl alcohol comprising 7 mol of ethylene oxide.

15. (Amended) Composition as defined in ~~any one of~~ ~~claims 1 to 14~~, in which the emulsifying agent or agents of the oil-in-water type are chosen [lacuna] the compounds of formula (II):



in which R_4 represents a saturated or unsaturated and linear or branched hydrocarbonaceous radical comprising from 1 to 30 carbon atoms, R_5 represents a hydrogen atom or an alkyl radical comprising 1 or 2 carbon atoms, G represents the residue of a saccharide, x represents a decimal number between 1 and 5 and n is equal either to zero or to an integer 9.

17. (Amended) Composition as defined in ~~either of~~ ~~claims 15 and 16~~, for which, in the formula (II), G represents the glucose residue or the xylose residue and n is equal to 0.

18. (Amended) Composition as defined in ~~any one of~~ ~~claims 15 to 17~~, for which, in the formula (II), R_4 represents a radical comprising from 8 to 18 carbon atoms and more particularly an octyl, decyl, undecyl, dodecyl, tetradecyl or hexadecyl radical, the said radicals being linear or branched.

19. (Amended) Composition as defined in ~~any one of~~ ~~claims 1 to 18~~, for which the strong acid functional group of the monomer comprising it is the sulphonic acid functional group or the phosphonic acid functional group, partially or completely salified, and the monomer is preferably 2-methyl-2-[(1-oxo-2-propenyl)amino]-1-propanesulphonic acid, partially or completely salified in the form of an alkali metal salt, such as, for example, the sodium salt or the potassium salt, of the ammonium salt, of a salt of an aminoalcohol, such as, for example, the monoethanolamine salt, or of an amino acid salt, such as, for example, the lysine salt.

20. (Amended) Composition as defined in ~~any one of~~ ~~claims 1 to 19~~, for which the weak acid functional group of the monomer comprising it is the carboxylic acid functional group and the said monomer is preferably chosen from partially or completely salified acrylic acid, methacrylic acid, itaconic acid or maleic acid.

21. (Amended) Composition as defined in ~~any one of~~ ~~claims 1 to 20~~, for which the neutral monomer is chosen from

2-hydroxyethyl acrylate, 2,3-dihydroxypropyl acrylate, 2-hydroxyethyl methacrylate, 2,3-dihydroxypropyl methacrylate or an ethoxylated derivative with a molecular weight of between 400 and 1 000 of each of these esters.

22. (Amended) Composition as defined in ~~one of Claims 1 to 10~~, in which the polyelectrolyte is a homopolymer of acrylic acid partially or completely salified in the form of the sodium salt or of the ammonium salt.

23. (Amended) Composition as defined in ~~one of Claims 1 to 10~~, in which the polyelectrolyte is a copolymer of partially or completely salified 2-methyl-2-[(1-oxo-2-propenyl)amino]-1-propanesulphonic acid (a) and of 2-hydroxyethyl acrylate (b) in an (a)/(b) molar ratio of between 30/70 and 90/10 and very particularly 50/50 and 90/10.

25. (Amended) Composition as defined in ~~one of Claims 1 to 10~~, in which the polyelectrolyte is a copolymer of the sodium salt, of the ammonium salt, of the monoethanolamine salt or of the lysine salt of 2-methyl-2-[(1-oxo-2-propenyl)amino]-1-propanesulphonic acid (a_1) and of acrylic acid partially or completely salified in the form of the sodium salt, of the ammonium salt, of the monoethanolamine salt or of the lysine salt (c_1) in an (a_1)/(c_1) molar ratio of between 30/70 and 90/10 and very particularly between 30/70 and 45/55.

26. (Amended) Composition as defined in ~~one of~~ ~~claims~~ ~~1 to 10~~, in which the polyelectrolyte is a copolymer of the sodium salt or of the ammonium salt of 2-methyl-2-[(1-oxo-2-propenyl)amino]-1-propanesulphonic acid (a_2) and of acrylamide (d) in an (a_2)/(d) molar ratio of between 50/50 and 30/70.

27. (Amended) Composition as defined in ~~any one of~~ ~~claims~~ ~~1 to 26~~, characterized in that the polyelectrolyte is crosslinked and/or branched with a diethylenic or polyethylenic compound in the molar proportion, expressed with respect to the monomers employed, of 0.005% to 1% and preferably of 0.01% to 0.5% and more particularly of 0.1% to 0.25%.

29. (Amended) Composition as defined in ~~any one of~~ ~~claims 1 to 28~~ claim 1, characterized [lacuna] that it comprises from 4% to 10% by weight of emulsifying agents.

31. (Amended) Composition as defined in ~~any one of~~ ~~claims 1 to 30~~, characterized in that the oil phase represents from 15% to 40% and preferably from 20% to 25% of its total weight.

32. (Amended) Composition as defined in ~~any one of~~ ~~claims 1 to 31~~ 1, characterized in that it additionally comprises one or more additives chosen from complexing agents, transfer agents or chain-limiting agents.

33. (Amended) Cosmetic, dermocosmetic, dermatopharmaceutical or pharmaceutical composition, characterized

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in that it comprises from 0.1% to 10% by weight of the composition as defined in ~~any one of~~ claims 1 to 32.

35. (Amended) Use of a composition as defined in ~~one~~ of ~~claims 1 to 34~~ in preparing cosmetic, dermocosmetic, dermo-pharmaceutical or pharmaceutical compositions.